
Subject: NFS-write blocks all processes

Posted by [Bernd_K](#) on Thu, 16 Oct 2014 10:56:05 GMT

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Hi All.

Most likely a simple problem - but I'm obviously unable to solve it

When my processes NFS-write to the RAID, all processes are "blocked" (don't do anything) until the write operation is completed.

The reason for "don't do anything" seems to be, that all NFS-read is stopped while the NFS-write is going on.

"iostat -nkx 1" looks like this:

Device:rkB_nor/s wkB_nor/s rkB_dir/s wkB_dir/s rkB_svr/s wkB_svr/s

pr2	10232.00	10234.50	0.00	0.00	16384.00	59935.75
pr2	57235.25	57223.15	0.00	0.00	60416.00	0.00
pr2	56915.50	56932.60	0.00	0.00	61440.00	0.00
pr2	67707.06	67702.07	0.00	0.00	54272.00	0.00
pr2	54517.38	54557.34	0.00	0.00	59392.00	0.00
pr2	54597.31	54557.34	0.00	0.00	62464.00	0.00
pr2	65770.36	65775.69	0.00	0.00	53734.65	0.00
pr2	54517.38	54514.49	0.00	0.00	61440.00	0.00
pr2	60912.38	60909.88	0.00	0.00	56320.00	0.00
pr2	54517.38	54557.34	0.00	0.00	61440.00	0.00
pr2	54597.31	54557.34	0.00	0.00	61440.00	0.00
pr2	36371.56	36371.56	0.00	0.00	26624.00	0.00
pr2	54517.38	54557.34	0.00	0.00	52224.00	0.00
pr2	54597.31	54557.34	0.00	0.00	53248.00	0.00
pr2	55716.44	55693.96	0.00	0.00	58368.00	0.00
pr2	59473.50	59533.45	0.00	0.00	60416.00	0.00
pr2	49149.69	49090.33	0.00	0.00	59817.82	0.00
pr2	54517.38	54557.34	0.00	0.00	38912.00	0.00
pr2	20304.12	20279.54	0.00	0.00	23552.00	71680.00
pr2	639.50	694.07	0.00	0.00	0.00	105611.52
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	0.00	0.00	0.00	0.00	0.00	115712.00
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	0.00	0.00	0.00	0.00	0.00	115712.00
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	949.75	885.45	0.00	0.00	0.00	108889.39
pr2	44844.94	44889.90	0.00	0.00	46080.00	757.18
pr2	60033.06	60048.05	0.00	0.00	56538.69	0.00
pr2	55816.36	55803.87	0.00	0.00	61440.00	0.00
pr2	72003.70	71991.21	0.00	0.00	48128.00	0.00

pr2	54597.31	54557.34	0.00	0.00	59520.54	0.00
pr2	54517.38	54557.34	0.00	0.00	61440.00	0.00
pr2	54597.31	54557.34	0.00	0.00	61440.00	0.00
pr2	56114.54	56131.86	0.00	0.00	60831.68	0.00
pr2	54677.25	54687.24	0.00	0.00	61440.00	0.00
pr2	58354.38	58374.36	0.00	0.00	61212.00	0.00
pr2	66667.88	66660.38	0.00	0.00	53248.00	0.00
pr2	54597.31	54557.34	0.00	0.00	61440.00	0.00
pr2	65483.80	65541.26	0.00	0.00	54272.00	0.00
pr2	55009.49	54997.00	0.00	0.00	60388.00	0.00
pr2	55529.08	55549.46	0.00	0.00	61440.00	0.00
pr2	60352.81	60327.44	0.00	0.00	57344.00	0.00
pr2	51879.44	51904.81	0.00	0.00	50176.00	14336.00
pr2	0.00	0.00	0.00	0.00	0.00	114566.34
pr2	1119.12	1088.76	0.00	0.00	0.00	104447.83
pr2	0.00	0.00	0.00	0.00	0.00	115712.00
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	0.00	0.00	0.00	0.00	0.00	115712.00
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	0.00	0.00	0.00	0.00	0.00	114688.00
pr2	2717.88	2700.39	0.00	0.00	13312.00	52264.20
pr2	36371.56	36371.56	0.00	0.00	25600.00	0.00
pr2	25722.46	25727.41	0.00	0.00	21291.09	0.00
pr2	14948.31	14933.32	0.00	0.00	25600.00	0.00
pr2	20943.62	21008.57	0.00	0.00	19456.00	0.00

i.e. there is no read during write. I can set the length of the "write-only period" with the dirty_xxx parameters under /proc/sys/vm, but that does not really buy me anything.

Question: how can I convince the NFS-I/O to read and write at the same time? I am never writing to any file being read at the same time, so there is no risk in simultaneous read/write.

Thanks and Cheers
Bernd